

PTO/SB/08A (08-03)

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| Sheet | 1 | of | 2 |
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**Complete If Known**

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|-------------------------------|---------------------------|
| <b>Application Number</b>     | <b>10/687,519</b>         |
| <b>Filing Date</b>            | <b>10/16/2003</b>         |
| <b>First Named Inventor</b>   | <b>Truskell et al.</b>    |
| <b>Art Unit</b>               | <b>1775</b>               |
| <b>Examiner Name</b>          | <b>Turner, Archene A.</b> |
| <b>Attorney Docket Number</b> | <b>P75-17-03</b>          |

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| Examiner Signature |  | Date Considered |  |
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|   |   |           |   | <b>FIRST NAMED INVENTOR</b>   | Truskett et al.    |
|   |   |           |   | <b>Group Art Unit</b>         | 1775               |
|   |   |           |   | <b>Examiner Name</b>          | Turner, Archene A. |
|   |   |           |   | <b>Attorney Docket Number</b> | P75-17-03          |
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| FOREIGN PATENT DOCUMENTS |                          |                         |                                   |  |  |  |
|--------------------------|--------------------------|-------------------------|-----------------------------------|--|--|--|
| Examiner<br>Initials*    | Cita<br>No. <sup>1</sup> | Foreign Patent Document |                                   | Name of Patentee or Applicant of<br>Cited Document | Date of Publication of<br>Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|                          |                          | Office<br>2             | Number <sup>4</sup><br>(if known) |  |  |  |
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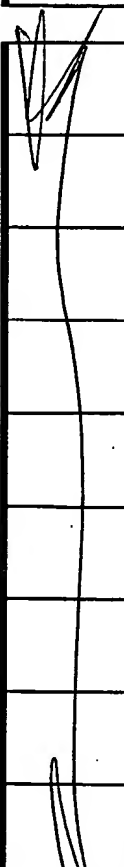
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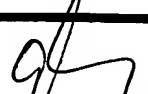
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| Sheet  | 6         | of | 7 |                                 |                    |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS                                  |             |   |                |
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| Examiner<br>Initials*  | Cite<br>No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
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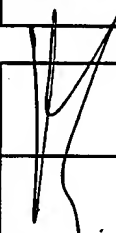
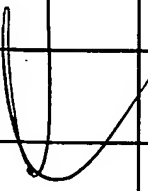
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|    | E72         | Hakovirta et al., Heat Resistance of Fluorinated Diamond-Like Carbon Films, Diamond and Related Materials 10(8); pp. 1486-1490, 8/1/2001  |                |
|   | E73         | Zhu et al., The Improvement of the Oxidation Resistance of TiAl Alloys by Fluorine Plasma-Based Ion Implantation, Surface and Coatings Technology 158; pp. 502-507, 9/1/2002  |                |
|   | E74         | Yao et al., Structural, Mechanical and Hydrophobic Properties of Fluorine-Doped Diamond-Like Carbon Films Synthesized by Plasma Immersion Ion Implantation and Deposition (PIII-D), Applied Surface Science 230; pp. 172-178, 4/17/2004                         |                |
|   | E75         | Bailey et al., Step and Flash Imprint Lithography: Defect Analysis, Journal of Vacuum Science, B 19(6), pp. 2806-2810, 11/1/2001  |                |
|   | E76         | Bailey et al., Step and Flash Imprint Lithography: Template Surface Treatment and Defect Analysis, Journal of Vacuum Science, B 18(6), pp. 3572-3577, 11/1/2000   |                |
|  | E77         | Schneider et al., Stripes of Partially Fluorinated Alkyl Chains: Dipolar Langmuir Monolayers  |                |
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Electronic Version v18

Stylesheet Version v18.0

Title of Invention

LOW SURFACE ENERGY TEMPLATES

Application Number: 10/687519 \*10/687519\*

Confirmation Number: 5222

First Named Applicant: Van Truskett

Attorney Docket Number: P75-17-03

Art Unit: 1775

Examiner: Archene Turner

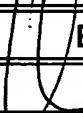
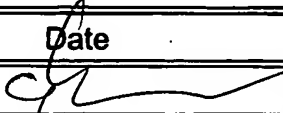
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Electronic Version v18

Stylesheet Version v18.0

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Invention**

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Attorney Docket Number: P75-17-03  
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|      | 1        | 6696157    | 2004-02-24 | David et al. |      |       |          |

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| <b>Filing Date</b>            | 10/16/2003         |
| <b>First Named Inventor</b>   | Truskett et al.    |
| <b>Group Art Unit</b>         | 1775               |
| <b>Examiner Name</b>          | Turner, Archene A. |
| <b>Attorney Docket Number</b> | P75-17-03          |

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|  |   |    |   | Examiner Name            | Turner, Archene A. |
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|   |   |    |   | First Named Inventor     | Truskett et al.    |
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|   |   |    |   | Examiner Name            | Turner, Archene A. |
| Sheet   | 3 | of | 3 | Attorney Docket Number   | P75-17-03          |

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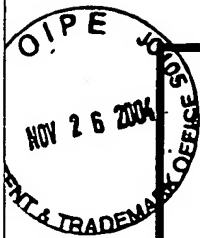
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| Filing Date            | 10/16/2003         |
| First Named Inventor   | Truskett et al.    |
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| Examiner Name          | Turner, Archene A. |
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## U.S. PATENT DOCUMENTS

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|                    | D2                    | 3,783,520            |                                  | King  | 01-08-1974                                       |   |
|                    | D3                    | 3,807,027            |                                  | Heisler   | 04-30-1974                                       |   |
|                    | D4                    | 3,807,029            |                                  | Troeger   | 04-30-1974                                       |   |
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|                    | D11                   | 4,155,169            |                                  | Drake et al.                                    | 05-22-1979                                       |   |
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|                    | D21                   | 4,451,507            |                                  | Beltz et al.                                    | 05-29-1994                                       |   |
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|                    | D26                   | 4,610,442            |                                  | Oku et al.                                      | 09-09-1986                                       |   |
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|                    | D33                   | 4,763,866            |                                  | Takei   | 08-16-1988                                       |   |
|                    | D34                   | 4,808,511            |                                  | Holmes  | 02-28-1989                                       |   |
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|   |   |    |    | Filing Date              | 10/16/2003         |
|   |   |    |    | First Named Inventor     | Truskett et al.    |
|   |   |    |    | Group Art Unit           | 1775               |
|   |   |    |    | Examiner Name            | Turner, Archene A. |
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|                       | D36                   | 4,846,931            |                                   | Gmitter et al.                                  | 07-11-1989                                       |   |  |
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|                       | D41                   | 4,908,298            |                                   | Hefferon et al.                                 | 03-13-1990                                       |   |  |
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|                       | D45                   | 4,931,351            |                                   | McColgin et al.                                 | 06-05-1990                                       |   |  |
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|                       | D47                   | 4,976,818            |                                   | Hashimoto et al.                                | 12-11-1990                                       |   |  |
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|                       | D54                   | 5,073,230            |                                   | Maracas et al.                                  | 12-17-1991                                       |   |  |
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|                       | D56                   | 5,108,875            |                                   | Thackeray et al.                                | 04-28-1992                                       |   |  |
|                       | D57                   | 5,110,514            |                                   | Soane   | 05-05-1992                                       |   |  |
|                       | D58                   | 5,126,006            |                                   | Cronin et al.                                   | 06-30-1992                                       |   |  |
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|                       | D61                   | 5,151,754            |                                   | Ishibashi et al.                                | 09-29-1992                                       |   |  |
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|                       | D67                   | 5,212,147            |                                   | Sheats  | 05-18-1993                                       |   |  |
|                       | D68                   | 5,234,793            |                                   | Sebald et al.                                   | 08-10-1993                                       |   |  |
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|                       | D69                   | 5,240,550            |                                      | Boehnke et al.                                     | 08-31-1993   |  |
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| Examiner<br>Signature |                       |                      |                                      |  | Date<br>Considered                                     |  |

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|   |   |    |    | Examiner Name            | Turner, Archene A. |
| Sheet   | 4 | of | 16 | Attorney Docket Number   | P75-17-03          |

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## Application Number

**10/687,519**

**Filing Date**

**10/16/2003**

**First Named Inventor**

Truskett et al.

### Group Art Unit

1775

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**Turner, Archene A.**

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|  |   | Application Number       | 10/687,519         |
|  |   | Filing Date              | 10/16/2003         |
|  |   | First Named Inventor     | Truskett et al.    |
|  |   | Group Art Unit           | 1775               |
|  |   | Examiner Name            | Turner, Archene A. |
|  |   | Attorney Docket Number   | P75-17-03          |
| Sheet  | 9 | of                       | 16                 |

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|   | D239     | Abstract of Japanese Patent 02-24848, January 26, 1990  |                |
|   | D240     | Abstract of Japanese Patent 02-92603, August 12, 2004   |                |
|   | D241     | Abstract of Japanese Patent 55-88332, April 14, 2004  |                |
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|   | D244     | ANANTHASURESH et al., "Strategies for Systematic Synthesis of Compliant Mems.", DSC-Vol. 55-2, Dynamic Systems and Control: Volume 2, pp. 677 - 686, November 1, 1994.  |                |
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|   | D247     | <del>BAILEY et al., "Imprint Lithography Templates Having Alignment Marks," U.S. Patent Application 10/666,527, Filed with USPTO Sept. 18, 2003</del>   | NOT PUBLIC     |
|   | D248     | BENDER et al., "Multiple Imprinting in UV-based Nanoimprint Lithography: Related Material Issues.", Microelectronic Engineering 61 - 62, January 1, 2002, pp. 407-413.  |                |
|   | D249     | <del>CHERALA et al., "Applying Imprinting Material to Substrates Employing Electromagnetic Fields," U.S. Patent Application 10/687,562, Filed with USPTO Oct. 16, 2003</del>  | NOT PUBLIC     |

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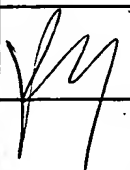

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|  |    |    | Examiner Name            | Turner, Archene A.     |           |
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|   | D265     | HOWELL et al., "A Loop-Closure Theory for the Analysis and Synthesis of Compliant Mechanisms.", Journal of Mechanical Design, March 1, 1996, Vol. 118, pp. 121-125.   |                |                 |  |
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|   | D267     | International Application No. PCT/US2002/015551, "Communication Relating to the Results of the Partial International Search."   |                |                 |  |
|   | D268     | International Search Report for PCT/US 00/30041, October 18, 2001.  |                |                 |  |
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|   | D271     | KANETOMO et al., "Robot for Use in Ultrahigh Vacuum.", Solid State Technology, August 1, 1997, pp. 63-72.   |                |                 |  |
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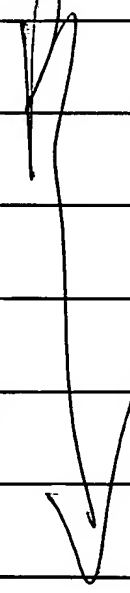
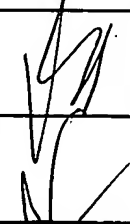
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|   |    |    | Examiner Name            | Turner, Archene A.     |           |
| Sheet   | 12 | of | 16                       | Attorney Docket Number | P75-17-03 |

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|   | D272     | KIM et al., "High-precision Magnetic Levitation Stage for Photolithography.", Precision Engineering, April 1, 1998, Vol 22., No. 2, pp. 66 - 77.  |                |            |
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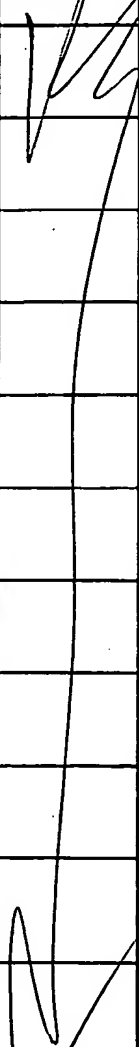
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|   |    |    | Application Number       | 10/687,519             |           |
|   |    |    | Filing Date              | 10/16/2003             |           |
|   |    |    | First Named Inventor     | Truskett et al.        |           |
|   |    |    | Group Art Unit           | 1775                   |           |
|   |    |    | Examiner Name            | Turner, Archene A.     |           |
| Sheet   | 15 | of | 16                       | Attorney Docket Number | P75-17-03 |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |          |   |                |
|---|----------|---|----------------|
| Examiner Initials*                                | Cita No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|   | D305     | SUNG et al., "Micro/nano-tribological Characteristics of Self-Assembled Monolayer and its Application in Nano-Structure Fabrication.", Elsevier Science B.V., July 1, 2003, Vol. 255, No. 7, pp. 808-818.   |                |
|   | D306     | TAJBAKHSI et al., "Three-Degree-of-Freedom Optic Mount for Extreme Ultraviolet", American Society for Precision Engineering, January 1, 1998, pp. 359-362.  |                |
|   | D307     | TANIKAWA et al., "Development of Small-sized 3 DOF Finger Module in Micro Hand for Micro Manipulation.", Proc. of IEEE, March 1, 1999, Int. conf. on Intelligent Robots and Systems, pp. 876-881.   |                |
|   | D308     | TOMITA et al., "A 6-axes Motion Control Method for Parallel-Linkage-Type Fine Motion Stage.", JSPE-58-04, pp. 118-124.  |                |
|   | D309     | Translation of Japanese Patent 02-24848, January 26, 1990.  |                |
|   | D310     | Translation of Japanese Patent 02-92603, April 3, 1990.   |                |
|   | D311     | TRILOGY SYSTEMS, "Linear Motors 310.", www.trilogysystems.com, January 1, 2001.   |                |
|   | D312     | US Application No. 10/375,817, Filed 02-27-2003, NGUYEN et al., "Method to Reduce Adhesion between a Polymerizable Layer and a Substrate Employing a Fluorine-Containing Layer."  | NOT PUBLIC     |
|   | D313     | US Application No. 10/463,396, Filed 06-17-2003, CHOI et al., "Method to Reduce Adhesion Between a Conformable Region and a Pattern of a Mold."   | NOT PUBLIC     |
|   | D314     | US Application No. 10/735,110, Filed 12-12-2003, NIMMAKAYALA et al., "Magnification Correction Employing Out-of-Plane Distortion of a Substrate."   | NOT PUBLIC     |
|   | D315     | US Application No. 10/785,248, Filed 02-24-2004, CHOI et al., "A Method to Control the Relative Position Between a Body and a Surface."   | NOT PUBLIC     |

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| Examiner Signature |  | Date Considered |  |
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|  |    |    | <b>Application Number</b>   | 10/687,519                    |           |
|  |    |    | <b>Filing Date</b>          | 10/16/2003                    |           |
|  |    |    | <b>First Named Inventor</b> | Truskett et al.               |           |
|  |    |    | <b>Group Art Unit</b>       | 1775                          |           |
|  |    |    | <b>Examiner Name</b>        | Turner, Archene A.            |           |
| <b>Sheet</b>   | 16 | of | 16                          | <b>Attorney Docket Number</b> | P75-17-03 |

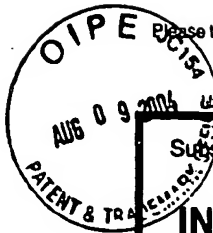
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|   | D316     | US Application No. 10/788,700, Filed 02-27-2004, SREENIVASAN et al., "Full-Wafer or Large Area Imprinting with Multiple Separated Sub-Fields for High Throughput Lithography."  | NOT            | PUBLIC |
|   | D317     | US Application No. 10/806,956, Filed 03-23-2003, CHOI et al., "An Apparatus to Control Displacement of a Body Spaced-Apart from a Surface."   | NOT            | PUBLIC |
|   | D318     | US Applications No. 10/194,991, Filed 07-11-2002, SREENIVASAN et al., "Step and Repeat Lithography Processes."  | NOT            | PUBLIC |
|   | D319     | US Applications No. 10/687,519, Filed 10-16-2003, NGUYEN et al., "Low Surfaced Energy Template."  | NOT            | PUBLIC |
| hcl   | D320     | VANDERBILT UNIVERSITY OFFICE OF TRANSFER TECHNOLOGY; VU9730 Specifications for Improved Flexure Device; 2001, 25, 192-199.  |                |        |
| hcl   | D321     | WANG et al., "Passive Compliance versus Active Compliance in Robot-Based Automated Assembly Systems.", Industrial Robot, January 1, 1998, Vol. 25, No. 1, pp. 48-57.  |                |        |
| hcl   | D322     | WILLIAMS et al., "Six Degree of Freedom Mag-Lev Stage Development.", SPIE, January 1, 1997, Vol. 3051, pp. 856-867.   |                |        |
|   | D323     | WILLSON et al., "Step and Flash Imprint Lithography", U.S. Patent Application 10/806,051, Filed with USPTO March 22, 2004.  | NOT            | PUBLIC |
| hcl   | D324     | WU, "Large Area High Density Quantized Magnetic Disks Fabricated Using Nanoimprint Lithography.", J. Vac. Sci. Technol., November 1, 1998, B 16(6), pp. 3825-3829.  |                |        |
|   | D325     | XU et al., "Materials for Imprint Lithography," U.S. Patent Application 10/784,911, Filed with USPTO Feb. 23, 2004.   | NOT            | PUBLIC |
|   | D326     | XU et al., "Methods for Fabricating Patterned Features Utilizing Imprint Lithography," U.S. Patent Application 10/694,284, Filed with USPTO Oct., 27, 2003.   | NOT            | PUBLIC |

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|---|--|
| Examiner Signature <span style="display: inline-block; width: 150px; border-bottom: 1px solid black;"></span> | Date Considered <span style="display: inline-block; width: 100px; border-bottom: 1px solid black;"></span> |
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|   |   | Application Number       | 10/687,519       |                        |           |
|   |   | Filing Date              | October 16, 2003 |                        |           |
|   |   | First Named Inventor     | Truskett et al.  |                        |           |
|   |   | Group Art Unit           | 1762             |                        |           |
|   |   | Examiner Name            | Unassigned       |                        |           |
| Sheet   | 1 | of                       | 1                | Attorney Docket Number | P75-17-03 |

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|   | B1       | SOWAH. Diamond Used to Break the Mould [online], Sept. 18, 2002, [retrieved on Sept. 2, 2003]. Retrieved from the Internet: <URL: <a href="http://eetuk.com/showArticle.jhtml?articleID=19203691">http://eetuk.com/showArticle.jhtml?articleID=19203691</a> >.  |                |
|   | B2       | Kim et al., "Surface Energy and Polarity of Treated Indium-Tin-Oxide Anodes for Polymer Light-Emitting Diodes Studied by Contact Angle Measurements," Journal of Applied Physics, 1999, pp. 2774-2778, Vol. 86, No. 5.  |                |
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| Application Number | 10/687,519 |
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| <b>Filing Date</b> | 10/16/2003 |
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|-----------------------------|-----------------|
| <b>First Named Inventor</b> | Truskett et al. |
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| Group Art Unit | 1762 |
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| Examiner Name | Unassigned |
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